



P.A.M.I

2215 - 8TH AVE
HUMBOLDT, SASKATCHEWAN S0K 2A0

CONSULTANT NAME AND ADDRESS:

JRP ENGINEERING
Professional Engineers

9 Holgate Court, Kanata, ON, K2K 1B4
Tel: 613-266-8226 Email: Admin@jrpeng.com

revisions	description	date
3	100% ISSUED FOR TENDER	30/01/15
2	99% REVIEW	12/12/14
1	66% SUBMISSION	17/01/14

A	A detail no. no. du détail	A
C	B location drawing no. sur dessin no.	B
	C drawing no. dessin no.	C

project project

1426 ST. JOSEPH BLVD.,
WATERMAIN
RECONSTRUCTION

OTTAWA, ONTARIO

drawing dessin

PUMP STATION FLOOR PLAN
NEW INSTALLATIONS
AND DETAILS

designed	J.R.P.	conçu
date		(yyyy/mm/dd)
drawn	M.G.	dessiné
date		(yyyy/mm/dd)
reviewed	J.R.P.	examiné
date		(yyyy/mm/dd)
approved	J.R.P.	approuvé
date		(yyyy/mm/dd)
Tender	D.MOIR	Soumission

Project Manager Administrateur de projets
project no. no. du projet

R.020045.006

drawing no. no. du dessin

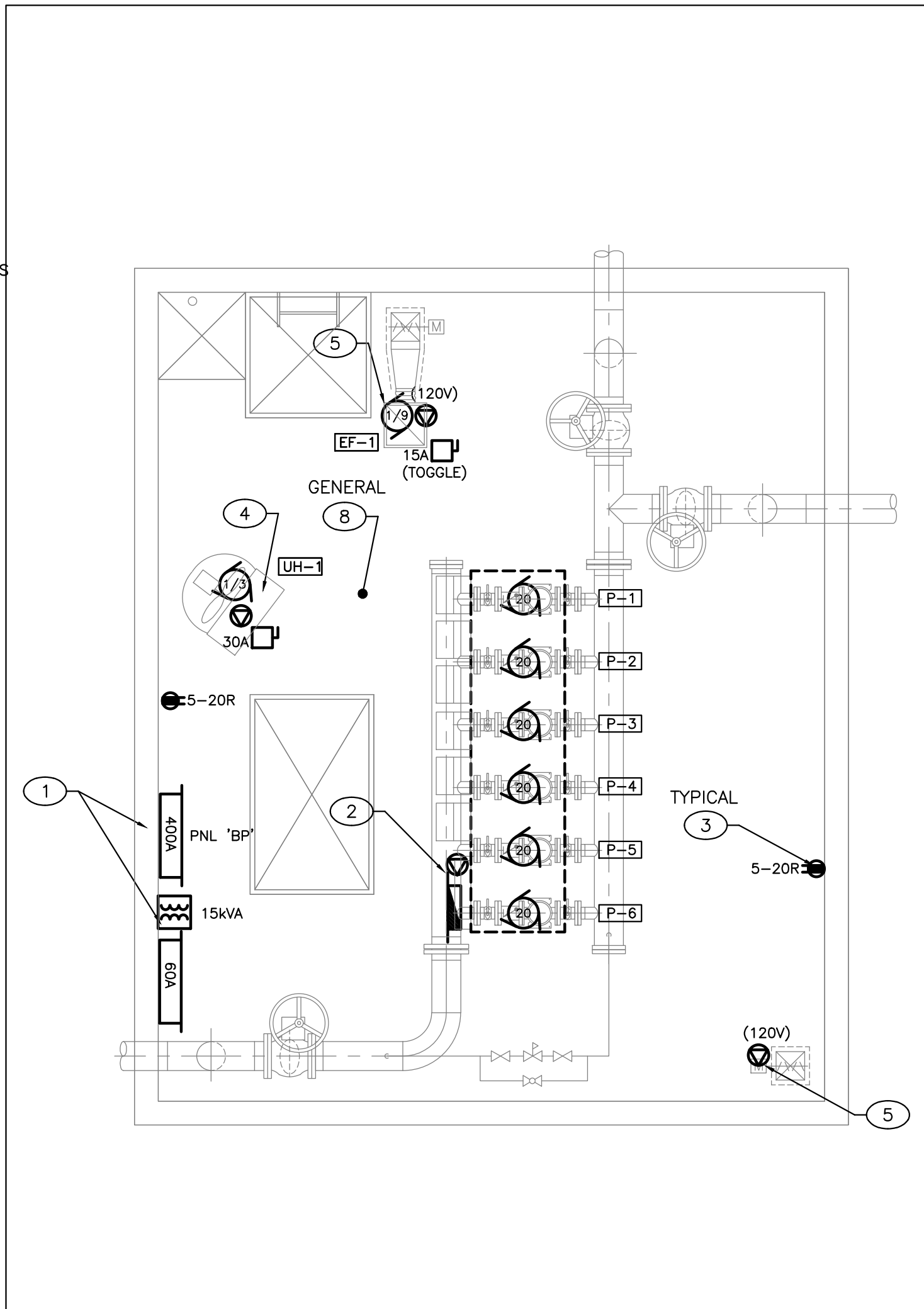
E-1

ITEM	DESCRIPTION
	120V LED STRIP LIGHT FIXTURE
	WET LOCATION
	EMERGENCY BATTERY PACK
	EXIT LIGHT CEILING AND WALL MOUNTED
	SINGLE POLE TOGGLE SWITCH
	ELECTRICAL PANEL
	JUNCTION BOX
	MOTION DETECTOR
	DEDICATED UPLEX RECEPTACLE WALL MOUNTED
	DUPLEX RECEPTACLE WALL MOUNTED
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER
	DATA/TELEPHONE OUTLET WALL MOUNTED
	THREE PHASE MOTOR
	SINGLE PHASE MOTOR
	DIRECT CONNECTION
	DISCONNECT SWITCH

NOT ALL SYMBOLS SHOWN IN LEGEND SET ARE
NECESSARILY USED IN DRAWING SET.

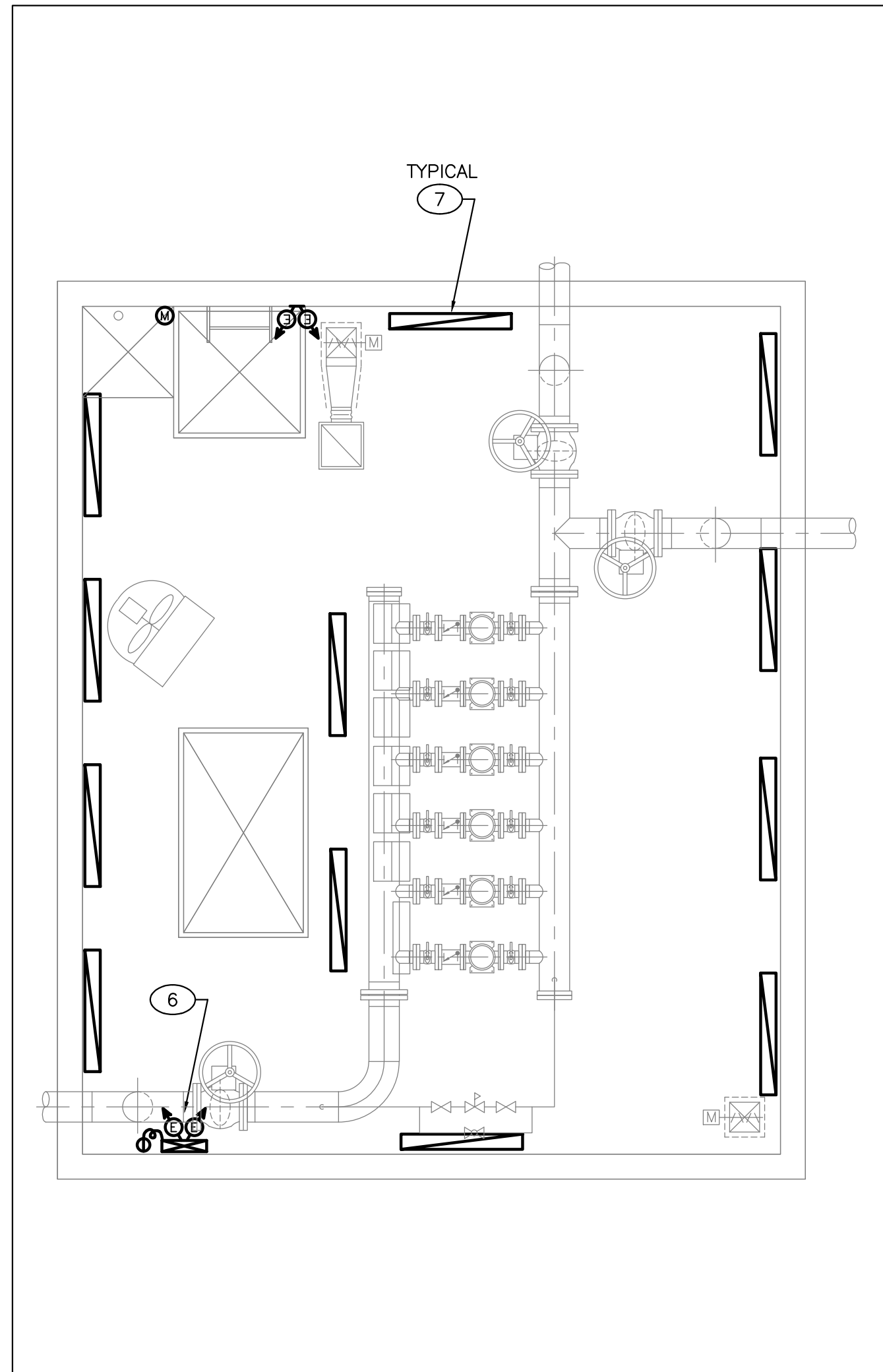
GENERAL NOTES:

- ALL ELECTRICAL EQUIPMENT SHOWN IN THIN SOLID LINES IS EXISTING TO REMAIN.
- ALL ELECTRICAL EQUIPMENT SHOWN IN THICK SOLID LINES IS NEW TO BE PROVIDED UNDER THIS CONTRACT, TOGETHER WITH ALL ASSOCIATED CONDUITS AND WIRING.
- FOR ANY REQUIRED SHUT DOWN, CONTRACTOR TO COORDINATE WITH SITE MANAGER AND OBTAIN APPROVAL BEFORE SHUT DOWN CAN BE PERFORMED.
- ALL NEW CONDUITS AND WIRING PASSING THRU FLOOR AND FIRE RATED WALLS TO BE FIRE STOP USING FIRE RETARDANT MASTIC SEALANT.
- ALL WIRING TO BE R/RW90, MINIMUM SIZE #12AWG COPPER, UNLESS OTHERWISE NOTED.
- ALL ELECTRICAL CIRCUITS ARE SHOWN FOR GROUPING PURPOSES ONLY, CONTRACTOR TO USE AVAILABLE CIRCUITS IN EXISTING ELECTRICAL PANELS. REUSE EXISTING AND/OR PROVIDE NEW ELECTRICAL BREAKERS AS REQUIRED.
- COORDINATE ALL WORK WITH MECHANICAL CONTRACTORS.
- THIS DRAWING WAS BASED ON PARTIAL SITE REVIEW ONLY, ALL EQUIPMENT, ACCESSORIES, SIZES, LOCATIONS AND DETAILS OF INSTALLATIONS TO BE CONFIRMED ON SITE.
- CONDUITS:
 - EMT C/W LIQUID TIGHT CONNECTORS WITHIN BUILDING
 - RIGID PVC FOR ALL EXTERIOR AND BURIED CONDUITS
 - RIGID PVC OR TECK 90 C/W LIQUID TIGHT CONNECTORS IN PUMP STATION.



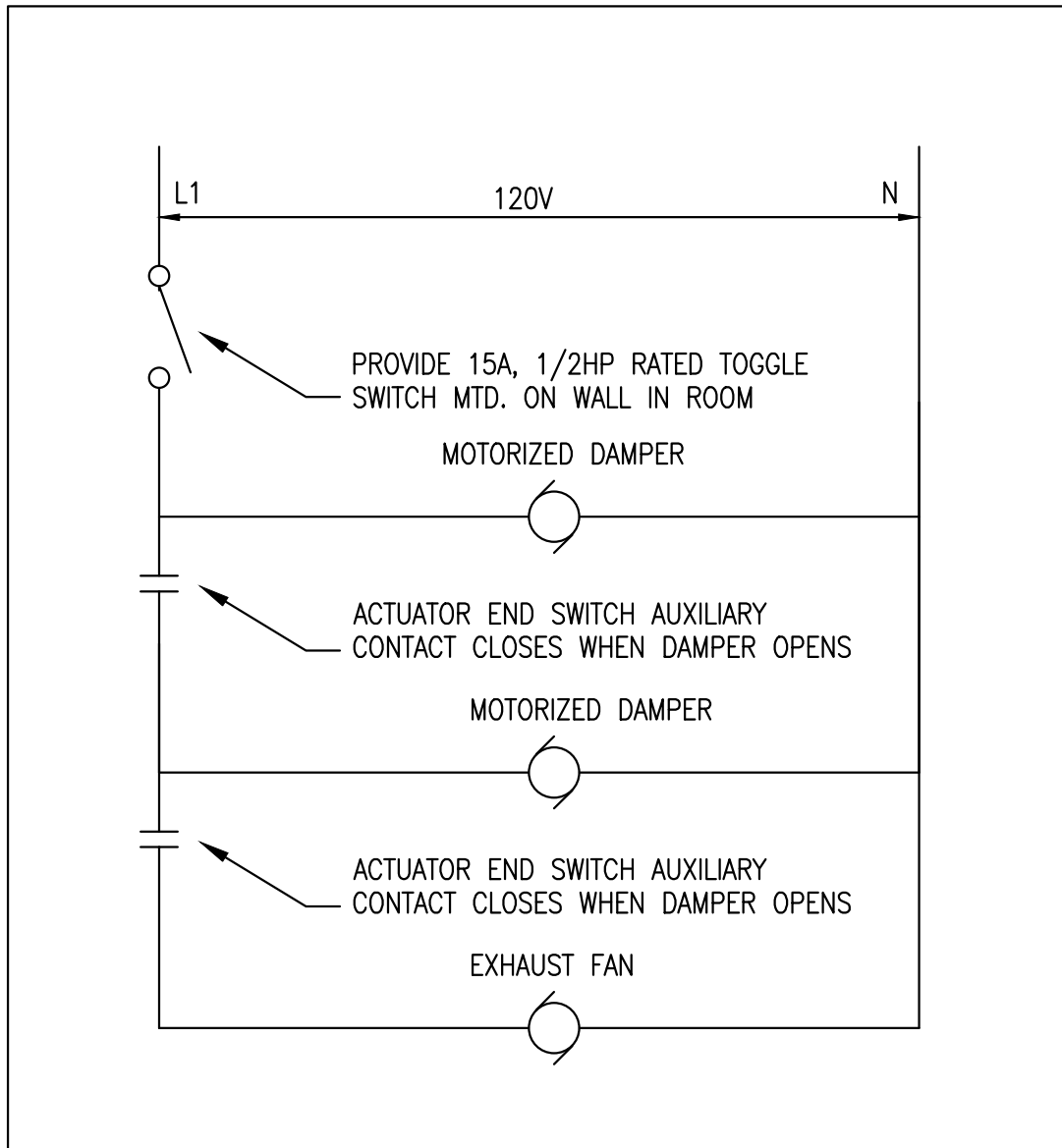
NEW PUMPING STATION – ELEC. DISTRIBUTION

SCALE: 1:50.



NEW PUMPING STATION – R.C.P.

SCALE: 1:50.



FAN SCHEMATIC

SCALE: NTS

DRAWING NOTES:

- PROVIDE NEW ELECTRICAL DISTRIBUTION, REFER TO SLD ON E-2 FOR DETAILS.
- PROVIDE SINGLE POINT CONNECTION TO NEW PUMP PACKAGE CONTROLLER C/W ALL CONDUIT, WIRING (3#350MCM+GND-78mmC), ASSOCIATED HARDWARE AND FLEXIBLE WHIP AT CONNECTION POINT.
- PROVIDE TWO (2) DEDICATED 5-20R DUPLEX RECEPTACLES C/W ALL CONDUIT, WIRING AND ASSOCIATED HARDWARE.
- PROVIDE 30A DISCONNECT SWITCH C/W DIRECT CONNECTION TO U/H #1, ALL CONDUIT, WIRING AND ASSOCIATED HARDWARE. LOW VOLTAGE CONTROLS BY MECHANICAL CONTRACTOR.
- PROVIDE 15A DISCONNECT SWITCH (TOGGLE) C/W DIRECT CONNECTION TO EF #1, ALL CONDUIT, WIRING AND ASSOCIATED HARDWARE. REFER TO FAN SCHEMATIC FOR LINE VOLTAGE CONTROL WIRING.
- PROVIDE EMERGENCY BATTERY PACK C/W TWO REMOTE HEADS, ALL CONDUIT AND WIRING.
- PROVIDE 120V, WALL MOUNTED LED LIGHT FIXTURES MOUNTED THROUGHOUT PUMP STATION AS SHOWN C/W WITH ALL CONDUIT, WIRING AND CONTROLS. ALL FIXTURES TO BE CONTROLLED BY SINGLE MOTION DETECTOR C/W OVERRIDE SWITCH AND TIMER AT CHAMBER ENTRANCE.
- ALL ELECTRICAL (PANELS, CONDUIT, BOXES, DEVICES ETC. TO BE SUPPORTED/MOUNTED ON UNISTRUT WITHIN CHAMBER.

MOTOR SCHEDULE					
REF	SERVICE	VOLTAGE	HP	MOP	REMARKS
P-1	CITY WATER BOOSTER PUMP	575/3	20.0	20.0	C/W SHUT-OFF VALVES, CHECK VALVE AND VARIABLE FREQUENCY DRIVE.
P-2	CITY WATER BOOSTER PUMP	575/3	20.0	20.0	C/W SHUT-OFF VALVES, CHECK VALVE AND VARIABLE FREQUENCY DRIVE.
P-3	CITY WATER BOOSTER PUMP	575/3	20.0	20.0	C/W SHUT-OFF VALVES, CHECK VALVE AND VARIABLE FREQUENCY DRIVE.
P-4	CITY WATER BOOSTER PUMP	575/3	20.0	20.0	C/W SHUT-OFF VALVES, CHECK VALVE AND VARIABLE FREQUENCY DRIVE.
P-5	CITY WATER BOOSTER PUMP	575/3	20.0	20.0	C/W SHUT-OFF VALVES, CHECK VALVE AND VARIABLE FREQUENCY DRIVE.
P-6	CITY WATER BOOSTER PUMP	575/3	20.0	20.0	C/W SHUT-OFF VALVES, CHECK VALVE AND VARIABLE FREQUENCY DRIVE.
EF-1	EXHAUST	120/1			348W
UH-1	20KW UNIT HEATER	575/3	1/30	20.0	

PUMP SCHEDULE

SCALE: NTS